## SEQUENCE LISTING

	<110> BA	SF Plan	t Scien	ice Gii	ъ	•								
5	<120> 'Us	se of ge	nes for	incr	easi	ng t	he o	il c	onte	nt i	n pl	ants		
	<130> PF	54384												
10	<140> AE <141> 20						•							
	<160> 35	;												
15	<170> Pa	tentIn '	Ver. 2	1										
	<210> 1 <211> 11 <212> DN <213> Sa	IA	yces ce	revis	iae			٠						
20	<220>													
	<221> CD <222> (1		6)	•	•			•		•				
<b>2</b> 5	<400> 1 atg tct	ttt agg	gat gt	a ata	æ2.5	200	~~~				-4-			4.0
:	Met Ser	Phe Arg	Asp Va	l Leu	Glu	Arg	Gly 10	Asp	Glu	Phe	Leu	Glu 15	Ala	48
30	tat ccc Tyr Pro	aga aga Arg Arg 20	agc co Ser Pr	c ctt o Leu	tgg Trp	aga Arg 25	ttt Phe	ctt Leu	tca Ser	tac Tyr	agt Ser 30	aca Thr	tca Ser	96
35	tta ctg	acc ttc Thr Phe 35	ggt gt Gly Va	a tca l Ser	aaa Lys 40	ctg Leu	ctt Leu	ctt Leu	ttc Phe	aca Thr 45	tgc Cys	tat Tyr	aat Asn	144
40	gtc aaa Val Ĺys : 50	ttg aat Leu Asn	ggt tt Gly Ph	t gaa e Glu 55	Lys	tta Leu	gaa Glu	act Thr	gcc Ala 60	ttg Leu	gaa Glu	cgt Arg	tcc Ser	192
45	aaa agg ( Lys Arg ( 65	gaa aat Glu Asn	Arg Gl	c ctt y Leu 0	atg Met	acg Thr	gtc Val	atg Met 75	aac Asn	cat His	atg Met	agt Ser	atg Met 80	240
.0	gtc gat g Val Asp	gat ccg Asp Pro	tta gt Leu Va 85	t tgg l Trp	gca Ala	aca Thr	cta Leu 90	cca Pro	tat Tyr	aag Lys	tta Leu	ttt Phe 95	acg Thr	288
50	tct ttg g	gac aac Asp Asn 100	ata ag Ile Ar	a tgg g Trp	tct Ser	ttg Leu 105	ggt Gly	gca Ala	cat His	aat Asn	att Ile 110	tgc Cys	ttt Phe	336
55	caa aat a Gln Asn I	aaa ttt Lys Phe 115	ctg gc Leu Al	c aac a Asn	ttt Phe 120	ttc Phe	tca Ser	ctt Leu	ggc Gly	caa Gln 125	gtc Val	ctt Leu	tca Ser	384
	aca gaa a Thr Glu A	aga ttt Arg Phe	ggg gt Gly Va	g ggc	cca Pro	ttt Phe	caa Gln	ggt Gly	tct Ser	ata Ile	gat Asp	gct Ala	tca Ser	432

	1:	30			•	13	5				14	0				•
5		<b>J</b>		.u 003	150	) ,	p As	p rn	ır r∈	u As 15	p Le 5	u Gl	u Tr	T T	r Pro	•
10			- • •	165	bei	. <i>5</i> e.	r ne	и њу	's Lу 17	0 S Al	а Ту:	r Se:	r Pr	o Pr 17	o Ile 5	
	ata ag Ile Ar	g to g Se	g aa r Ly: 18		tct Ser	tg: Tr	g gto P Vai	c ca l Hi 18	s va	t ta l Ty	t cca r Pro	a gaa o Glu	ı Gl	a tt y Ph 0	t gta e Val	<b>576</b>
15	cta ca Leu Gl	a tt n Le 19	2-	t ccg r Pro	cct Pro	ttt Phe	gaa Glu 200	I AS	t to n Se	g atq r Me	g agg t Arg	tat Tyr 205	Pho	t aa e Ly	a tgg s Trp	624
20	ggt at Gly Il 21		c aga r Arg	a atg J Met	atc Ile	cta Leu 215	GIU	gca Ala	a aca	a aag	g ccg s Pro 220	Pro	ati	gta Va	a gta 1 Val	672
25	cca ata Pro Ile 225				230	:	GIU	. rv	3 TT6	235	Ser	Glu	Ala	ι Val	1 Thr 240	720
30	gat toa Asp Sei			245	GIII	TTE	reu	PIC	250	Asn	Phe	Gly	Ser	Glu 255	Ile	768
	aat gtt Asn Val	acc Thr	ata Ile 260	Gly	gat Asp	cct Pro	tta Leu	aat Asn 265	Asp	gat Asp	tta Leu	atc Ile	gac Asp 270	agg Arg	tat Tyr	816
35	aga aaa Arg Lys	gaa Glu 275	2	aca Thr	cat His	ttg Leu	gtt Val 280	gaa Glu	aaa Lys	tac Tyr	tat Tyr	gat Asp 285	ccc Pro	aaa Lys	aat Asn	864
40	cct aac Pro Asn 290	gac Asp	ctc Leu	tct Ser	rap	gaa Glu 295	ttg Leu	aaa Lys	tat Tyr	ggt Gly	aaa Lys 300	gag Glu	gcg Ala	caa Gln	gat Asp	912
45	tta aga Leu Arg 305	agc Ser	aga Arg		gcc Ala 310	gct Ala	gaa Glu	ctg Leu	aga Arg	gcc Ala 315	cat His	gtt Val	gct Ala	gaa Glu	att Ile 320	960
	aga aat															1008
50	Arg Asn	GIu	Val	Arg 1 325	jys 1	Leu	Pro	Arg	Glu 330	Asp	Pro	Arg	Phe	Lys 335	Ser	•
55	ccc tca Pro Ser		340	wys r	rry r	ane .	ASII :	345	Thr	Glu	Gly :	Lys	Ser 350	Asp	Pro	1056
	gat gtt Asp Val	aaa Lys 355	gtc Val	att g Ile G	jy e	sau A	aat d Asn 5	tgg Trp	gca Ala	ata Ile	Arg A	agg a Arg 1 365	atg Met	caa Gln	aag Lys	1104

1146

ttt ctg cct cca gag ggt aaa cca aag ggt aag gat gat tga Phe Leu Pro Pro Glu Gly Lys Pro Lys Gly Lys Asp Asp 375 5 <210> 2 <211> 381 <212> PRT <213> Saccharomyces cerevisiae 10 <400>2Met Ser Phe Arg Asp Val Leu Glu Arg Gly Asp Glu Phe Leu Glu Ala 10 Tyr Pro Arg Arg Ser Pro Leu Trp Arg Phe Leu Ser Tyr Ser Thr Ser 15 25 Leu Leu Thr Phe Gly Val Ser Lys Leu Leu Phe Thr Cys Tyr Asn 40 45 Val Lys Leu Asn Gly Phe Glu Lys Leu Glu Thr Ala Leu Glu Arg Ser 55 20 Lys Arg Glu Asn Arg Gly Leu Met Thr Val Met Asn His Met Ser Met 70 . .. Val Asp Asp Pro Leu Val Trp Ala Thr Leu Pro Tyr Lys Leu Phe Thr 85 90 Ser Leu Asp Asn Ile Arg Trp Ser Leu Gly Ala His Asn Ile Cys Phe 25 100 105 Gln Asn Lys Phe Leu Ala Asn Phe Phe Ser Leu Gly Gln Val Leu Ser . 120 125 Thr Glu Arg Phe Gly Val Gly Pro Phe Gln Gly Ser Ile Asp Ala Ser 135 140 Ile Arg Leu Leu Ser Pro Asp Asp Thr Leu Asp Leu Glu Trp Thr Pro 30 150 . . . 155 His Ser Glu Val Ser Ser Leu Lys Lys Ala Tyr Ser Pro Pro Ile 165 170 Ile Arg Ser Lys Pro Ser Trp Val His Val Tyr Pro Glu Gly Phe Val 35 180 185: Leu Gln Leu Tyr Pro Pro Phe Glu Asn. Ser Met Arg Tyr Phe Lys Trp 200 205 Gly Ile Thr Arg Met Ile Leu Glu Ala Thr Lys Pro Pro Ile Val Val 40 215 ·220 Pro Ilé Phe Ala Thr Gly Phe Glu Lys Ile Ala Ser Glu Ala Val Thr 230 235 Asp Ser Met Phe Arg Gln Ile Leu Pro Arg Asn Phe Gly Ser Glu Ile 250 45 Asn Val Thr Ile Gly Asp Pro Leu Asn Asp Asp Leu Ile Asp Arg Tyr 265 Arg Lys Glu Trp Thr His Leu Val Glu Lys Tyr Tyr Asp Pro Lys Asn 280 Pro Asn Asp Leu Ser Asp Glu Leu Lys Tyr Gly Lys Glu Ala Gln Asp 50 295 300 Leu Arg Ser Arg Leu Ala Ala Glu Leu Arg Ala His Val Ala Glu Ile 310 315 Arg Asn Glu Val Arg Lys Leu Pro Arg Glu Asp Pro Arg Phe Lys Ser 325 330 Pro Ser Trp Trp Lys Arg Phe Asn Thr Thr Glu Gly Lys Ser Asp Pro 55 345 350 Asp Val Lys Val Ile Gly Glu Asn Trp Ala Ile Arg Arg Met Gln Lys 360 Phe Leu Pro Pro Glu Gly Lys Pro Lys Gly Lys Asp Asp

370 .

375 380

5	<2 <2	12>	1374		sis	thal	iana						•				
10	<2	20> 21> 22>	CDS (5).	. (13	48)												
15		00> gaa M	tg g	ga a ly I	tt ca le H:	at t is Pl	tt g ne Va 5	tt ga al A	ac aa	ag g ys A	la A	at c sp L	ta t eu T	gg a rp L	ag a Ys S	gt gca er Ala 1!	a.
20	ct: Le:	g tt u Le	g tto u Pho	c aat e Ast	t cti Lei 20	тъ	a cti s Lei	cg Arg	t gat g Asy	cga C Arg	y Pho	t cga e Arg	a ato	c gc	c gte a Vai	c gat 1 Asp 0	97
25	gat Asp	t ca P Hi	c cgi s Arg	t ggt g Gly 35	י אדי	a gct g Ala	aco Thi	g gti Val	tto Phe 40	e Ser	e cco	g gat O Asi	ggt Gly	tgo Cys 49	s Phe	c tct e Ser	145
30	501		50	)	, AIG	TEE	va1	. Thr 55	Arg	Phe	· Arc	, Asr	Phe 60	Arg	J Arg	g gag g Glu	<b>193</b>
•	tct Ser	Cto Let 65		tct Ser	cca Pro	ccg Pro	gct Ala 70	Pne	tat Tyr	cgc Arg	aga Arg	cga Arg 75	r Val	tct Ser	aag Lys	gac Asp	241
35	tta Leu 80		gca Ala	gaa Glu	gaa Glu	gag Glu 85	tct Ser	gct Ala	ctt Leu	ttc Phe	Cgg Arg	Met	cta Leu	caa Gln	act Thr	gtg Val 95	289
40	gct Ala	gtt Val	ccc Pro	ctt Leu	att Ile 100	gga Gly	aat Asn	gct Ala	tgt Cys	cat His 105	gtt Val	ttc Phe	atg Met	aat Asn	ggt Gly 110	ttt Phe	337
45	aac Asn	cgt Arg	gtt Val	cag Gln 115	gta Val	tat Tyr	ggt Gly	ttà Leu	gag Glu 120	aaa Lys	ttg Leu	cat His	gat Asp	gct Ala 125	tta Leu	ctc Leu	385
50	aac Asn	aga Arg	cca Pro 130	aag Lys	aac Asn	aag Lys	cct Pro	ctt Leu 135	gta Val	acg Thr	gtg Val	agc Ser	aat Asn 140	cat His	gtt Val	gca Ala	433
	tct Ser	gtg Val 145	gat Asp	gat Asp	cca Pro	ttt Phe	gtc Val 150	att Ile	gct Ala	tca Ser	tta Leu	ctt Leu 155	cca Pro	cct Pro	aaa Lys	ttt Phe	481
55	cta Leu 160	ctt Leu	gat Asp	gcc Ala	cgt Arg	aat Asn 165	ttg Leu	agg Arg	tgg Trp	Thr	ctc Leu 170	tgt Cys	gct Ala	aca Thr	gat Asp	aga Arg 175	529
	tgc	ttt	aaa	aac	cct	gta	act	tca	gct	ttc	tct	cga	tct	gtc	aaa	gtt	577

			•				•		•	3							
	Cys	Ph∈	: Lys	Asn	Pro 180	Val 	Thr	Ser	Ala	Phe 185	Ser	Arg	Ser	Val	Lys 190	Val	
5	ttg Leu	Pro	att Ile	tct Ser 195	Arg	ggt Gly	gaa Glu	gga Gly	att Ile 200	tat Tyr	cag Gln	cag Gln	gga Gly	atg Met 205	Asp	att Ile	625
10	gcg Ala	att Ile	tcg Ser 210	гÃг	ttg Leu	aac Asn	aac Asn	gga Gly 215	Gly	tgg Trp	gtt Val	cac His	atc Ile 220	Phe	cca Pro	gaa Glu	673
15	ggc Gly	agt Ser 225	Arg	tcc Ser	cgg Arg	gat Asp	ggt Gly 230	gga Gly	aag Lys	act Thr	atg Met	ggc Gly 235	Ser	gcg Ala	aag Lys	agg Arg	721
	ggt Gly 240	atc	gga Gly	agg Arg	ttg Leu	att Ile 245	ttg Leu	gac Asp	gca Ala	gat Asp	act Thr 250	Leu	cct Pro	atg Met	gtt Val	gtt Val 255	769
20	cct Pro	ttt Phe	gtg Val	cat His	act Thr 260	ggt Gly	atg Met	cag Gln	gat Asp	ata Ile 265	atg Met	cca Pro	gtt Val	gga Gly	gct Ala 270	agt Ser	817
25	gtt Val	cca Pro	cgg Arg	att Ile 275	ggc	aag Lys	aca Thr	gtg Val	aca Thr 280	gtg Val	atc Ile	att Ile	gga Gly	gac Asp 285	cct Pro	att Ile	865
30	cat His	ttt Phe	aat Asn 290	gac Asp	att Ile	ctc Leu	agc Ser	act Thr 295	gaa Glu	gga Gly	gcc Ala	caa Gln	cac His 300	gtc Val	tca Ser	agg Arg	913
<b>35</b> :	aaa Lys	cac His 305	ctg Leu	tat Tyr	gac Asp	gcc Ala	gtt Val 310	tcg Ser	tcc Ser	aga Arg	Ile	gga Gly 315	caa Gln	aga Arg	ctg Leu	tac Tyr	961
	gat Asp 320	tta Leu	aaa Lys	gca Ala	caa Gln	gtt Val 325	gat Asp	aga Arg	gta Val	tat. Tyr	ata Ile 330	gaa Glu	caa Gln	caa Gln	tct Ser	atg Met 335	1009
40	atg Met	tca Ser	cac His	aat Asn	gcc Ala 340	aaa Lys	aca Thr	ccc Pro	tcg Ser	gac Asp 345	cgt Arg	gct Ala	gct Ala	gag Glu	atc Ile 350	ttt Phe	1057
45	cat His	aga Arg	gtc Val	gat Asp 355	tgg Trp	gac Asp	tca Ser	ttt Phe	ggg Gly 360	atg Met	gga Gly	gca Ala	caa Gln	ttt Phe 365	tca Ser	gaa Glu	1105
50	gaa Glu	tca Ser	tca Ser 370	ccc Pro	agt Ser	agt Ser	aaa Lys	ccg Pro 375	att Ile	ggc Gly	caa Gln	agc Ser	gat Asp 380	gat Asp	cgc Arg	att Ile	1153
55	gtc Val	aga Arg 385	tct Ser	ccc Pro	aaa Lys	Arg	aga Arg 390	gtc Val	tca Ser	ccc Pro	gaa Glu	gga Gly 395	Gly ggg	gtc Val	agc Ser	ttg Leu	1201
	aag Lys 400	att Ile	aag Lys	aag Lys	Leu	atg Met 405	gac Asp	tca Ser	acc Thr	Glu	atg Met 410	atg Met	GJÀ aaa	ttt Phe	gcg Ala	gct Ala 415	1249

	aga	a gg g Gl	g tt y Le	a ct u Le	u me	g aa t As: 0	c gag n Glu	tao 1 Ty	c aa c Ly	g ag s Se 42	r Ar	g gt g Va	t ga 1 Gl	a tc u Se	t gc r Al 43	c aat a Asn	1297	. •
5	gt: Val	gg L Gl	t ag y Ar	g cc g Pro 43	) THE	a aag u Lys	g gct s Ala	tgg Tr	g aga Arg 440	g Gl	g ta u Ty	t tt	t ate	g aa t As: 44!	c cg n Ar	t gga g Gly	1345	
10	tta Lei	a ta	actt	gcaa	gtta	aaaci	tee d	gtta	g.								1374	
15	<21 <21	.0> 4 .1> 4 .2> 1	448	ldops	sis t	hali	lana											
20		0> 4 . G1 <sub>3</sub>		e His	Phe	e Val	. Asp	Lys	Ala	Asr 10	Leu )	ı Trp	Lys	Ser	Ala 15	Leu		
	Leu	Phe	e Asn	Leu 20	Lys	Leu	Arg	Asp	Arg 25	Phe	arç	Ile	ala	Val		Asp		
25	His	Arg	g Gly 35	Arg	Ala	Thr	Val	Phe 40	Ser	Pro	Asp	Gly	Cys 45		Ser	Ser		
30	Thr	Il∈ 50	His	Arģ	Trp	Val	Thr 55	Arg	Phe	Arg	Asn	Phe 60		Arg	Glu	Ser	•	
	Leu 65	Pro	Ser	Pro	Pro	Ala 70	Phe	Tyr	Arg	Arg	Arg	Val	Ser	Lys	Asp	Leu 80		
35	Thr	Ala	Glu	Glu	Glu 85	Ser	Ala	Leu	Phe	Arg 90	Met	Leu	Gl'n	Thr	Val 95			
	Val	Pro	Leu	Ile 100	Gly	Asn	Ala	Cys	His 105	Val	Phe	Met	Asn	Gly 110	Phe	Asn	. , .	
40	Arg	Val	Gln 115	Val	Tyr	Gly	Leu	Glu 120	Lys	Leu	His	Asp	Ala 125	Leu	Leu	Asn		•
45	Arg	Pro 130	Lys	Asn	Lys	Pro	Leu 135	Val	Thr	Val	Ser	Asn 140	.Ḥis	Val	Ala	Ser		•
	Val 145	Asp	Asp	Pro	Phe	Val 150	Ile	Ala	Ser	Leu	Leu 155	Pro	Pro	Lys	Phe	Leu 160		•
50	Leu	Asp	Ala	Arg	Asn 165	Leu	Arg	Trp	Thr	Leu 170	Cys	Ala	Thr	Asp	Arg 175	Cys		
	Phe	Lys	Asn	Pro 180	Val	Thr	Ser	Ala	Phe 185	Ser	Arg	Ser	Val	Lys 190	Val	Leu		
55	Pro	Ile	Ser 195	Arg	Gly	Glu	Gly	Ile 200	Tyr	Gln	Gln	Gly	Met 205	Asp	Ile	Ala		
	Ile	Ser 210	Lys	Leu	Asn	Asn	Gly 215	Gly	Trp	Val	His	Ile 220	Phe	Pro	Glu	Gly		

	Ser 225	Arg	Ser	Arg	Asp	Gly 230	Gly	Lys	Thr	Met	Gly 235	Ser	Ala	Lys	Arg	Gly 240	
5	Ile	Gly	Arg	Leu	Ile 245	Leu	Asp	Ala	Asp	Thr 250	Leu	Pro	Met	Val	Val 255	Pro	٠
10	Phe	Val	His	Thr 260	Gly	Met	Gln	Asp	Ile 265	Met	Pro	Val	Gly	Ala 270	Ser	Val	
.0	Pro	Arg	Ile 275	Gly	Lys	Thr	Val	Thr 280	Val	Ile	Ile	Gly	Asp 285	Pro	Ile	His	
15	Phe	Asn 290	Asp	Ile	Leu	Ser	Thr 295	Glu	Gly	Ala	Gln	His 300	Val	Ser	Arg	Lys	
	His 305	Leu	Tyr	Asp	Ala	Val 310	Ser	Ser	Arg	Ile	Gly 315	Gln	Arg	Leu	Tyr	Asp 320	
20	Leu	Lys	Ala	Gln	Val 325	Asp	Arg	Val	Tyr	Ile 330	Glu	Gln	Gln.	Ser	Met 335	Met	
25	Ser	His	Asn	Ala 340	Lys	Thr	Pro	Ser	Asp 345	Arg	Ala	Ala		11e 350	Phe	His	
	Arg	Val	Asp 355	Trp	Asp	Ser	Phe	Gly 360	Met	Gly	Ala	Gln	Phe 365	Ser.	Glu	Glu	
30	Ser	Ser 370	Pro	Ser	Ser	Lys	Pro 375	Ile	Gly	Gln	Ser	Asp 380	Asp	Arg	Ile	Val	
	Arg 385	Ser	Pro	Lys	Arg	Arg 390	Val	Ser	Pro	Glu	Gly 395	Gly	Val	Ser	Leu	Lys 400	
35	Ile	Lys	Lys	Leu	Met 405	Asp	Ser	Thr	Glu	Met 410	Met	Gly	Phe	Ala	Ala 415	Arg	
<del>1</del> 0	Gly	Leu	Leu	Met 420	Àsn	Glu	Tyr	Lys	Ser 425	Arg	Val	Glu	Ser	Ala 430	Asn	Val	
	Gly	Arg	Pro 435	Leu	Lys	Ala	Trp	Arg 440	Glu	Tyr	Phe	Met	Asn 445	Arg	Gly	Leu	
15										•			٠.	•			
. •		)> 5 L> 96 !> D1	•		•												
50		> Ar		lopsi	s th	alia	ma									•	
-		)> !> CI !> (3		(889	))				·								
55	<400 ctgg		gt t	tcta	atto	rġaq	agaa	ettt	gaa	ıgcta	ato	ı gac	r aac	, ata	ı atc	gaa	55
			-		-	_			<b>J</b>	_		: Gly				Glu	

	tgg Trp	g gca Ala	a gca a Ala	a aga a Ara 10	g ser	gat	Cat His	t ttg s Lev	gga Gly 15	/ Glz	a ati	t cca e Pro	a agg	aat Asr 20	1 Thi	gtg Val	103
5	ata Ile	ato Met	g gct : Ala 25	ı va.	t agt l Ser	gca Ala	ttt Phe	gca Ala 30	ı Lys	a gca s Ala	a gta a Val	a gca l Ala	aat Asn 35	Let	tgo Cys	aat Asn	151
10	aaa Lys	ago Ser 40	Ser	gtt Val	cac His	aat Asn	gca Ala 45	ı Asp	act Thr	ctt Leu	ato Met	aat Asn 50	Leu	gto Val	cag Gln	tca Ser	199
15	aga Arg 55	FIC	cct Pro	ggt Gly	gtt Val	cct Pro 60	ьeu	ato Ile	act Thr	gtt Val	agt Ser 65	: Asn	cac His	atg Met	tcg Ser	act Thr 70	247
20	ttg Leu	gat Asp	gat Asp	cca Pro	gta Val 75	atg Met	tgg Trp	Gly ggg	gca Ala	ttt Phe 80	Lys	ggt Gly	ctc Leu	ctt Leu	tcc Ser 85		295
	gat Asp	cca Pro	gaa Glu	ttg Leu 90	gct Ala	cgg Arg	tgg Trp	gtt Val	ctt Leu 95	Ala	gca Ala	gag Glu	gat Asp	ata Ile 100	tgt Cys	ttc Phe	343
25	agg Arg	aac Asn	cct Pro 105	ata Ile	ttc Phe	tcc Ser	tac Tyr	att Ile 110	ttc Phe	cgc Arg	act Thr	gga	aaa Lys 115	tgt Cys	ata Ile	cct Pro	391
30	ata Ile	act Thr 120	aga Arg	ggt Gly	ggt Gly	gga Gly	atc Ile 125	tac Tyr	caa Gln	gaa Glu	aac Asn	atg Met 130	aat Asn	gaa Glu	gct Ala	ctc Leu	439
35	cag Gln 135	cga Arg	tta Leu	aaa Lys	gat Asp	gga Gly 140	Ser	tgg Trp	ctg Leu	cat His	acc Thr 145	ttc Phe	cca Pro	gag Glu	gga Gly	aag Lys 150	487
40	gtg Val	ttt Phe	caa Gln	gat Asp	gat Asp 155	gtt Val	cct Pro	ata Ile	aga Arg	cga Arg 160	ctt Leu	aaa Lys	tgg Trp	gga Gly	act Thr 165	gca Ala	535
	agc Ser	ctc Leu	atc Ile	gcc Ala 170	cgt Arg	tcc Ser	cca Pro	gtt Val	acc Thr 175	cca Pro	atc Ile	gtt Val	ttg Leu	cca Pro 180	ata Ile	att Ile	583
45 .	cac His	cgt Arg	ggt Gly 185	ttt Phe	gag Glu	gag Glu	atg Met	atg Met 190	ccg Pro	gag Glu	aac Asn	tac Tyr	aat Asn 195	aat Asn	gga Gly	cga Arg	631
50	aga Arg	cca Pro 200	ctg Leu	gta Val	ccg Pro	ttg Leu	ccg Pro 205	aac Asn	aaa Lys	cac His	ctt Leu	aaa Lys 210	gtt Val	gtg Val	gtt Val	ggt Gly	679
55	gaa Glu 215	cca Pro	att Ile	gag Glu	ttt Phe	gat Asp 220	gtt Val	cca Pro	atg Met	atg Met	gtt Val 225	gag Glu	act Thr	gct Ala	Val	ttg Leu 230	727
•	gac Asp	tcc Ser	cgc Arg	cat His	gta Val 235	acc Thr	cct Pro	cct Pro	Leu	caa Gln 240	gaa Glu	gtg Val	aaa Lys	Trp	cct Pro 245	gtc Val	775

5	ctc Leu	act Thr	tct Ser	gct Ala 250		caa Gln	gtg Val	cta Leu	gac Asp 255	gaa Glu	act Thr	gct Ala	cag Gln	aga Arg 260	His	ctc Leu	823
J	tac Tyr	ata Ile	gct Ala 265	Leu	tcc Ser	gag Glu	aag Lys	att Ile 270	Gln	tcc Ser	tcc Ser	ttg Leu	gaa Glu 275	aca Thr	ttg Leu	aga Arg	871
10	ctc Leu	tta Leu 280	Ala	aag Lys	cgg Arg	ttg Leu	tga	cttc	cgc (	cggg	aaac	tt c	atat	caaa	a		919
15	tcc	ggtt	cac i	aact	ttta	aa gi	ttcc	ggtt	t aga	attc	gcca	tg	•				961
20	<21:	0> 6 1> 2 2> P: 3> A:	RT	dops	is tl	nalia	ana	٠									
25		0> 6 Gly	Lys	Ile	Met 5	Glu	Trp	Ala	Ala	Arg 10	Ser	Asp	His	Leu	Gly 15	Gly	
20	Ile	Pro	Arg	Asn 20	Thr	Val	Ile	Met	Ala 25	Val	Ser	Ala	Phe	Ala 30	Lys	Ala	·
30	Val	Ala	Asn 35	Leu	Cys	Asn	Lys	Ser 40	Ser	Val	His	Asn	Ala 45	Asp	Thr	Leu	
	Met	Asn 50	Leu	Val	Gln	Ser	Arg 55	Pro	Pro	Gly	Val	Pro 60	Leu	Ile	Thr	Val	
35	Ser 65	Asn	His	Met	Ser	Thr 70	Leu	Àsp	Asp	Pro	Val 75	Met	Trp	Gly	Ala	Phe 80	
40	Lys	Gly	Leu	Leu	Ser 85	Leu	Asp	Pro	Glu	Leu 90	Ala	Arg	Trp	Val	Leu 95	Ala	
.0	Ala	Glu	Asp	Ile 100	Cys	Phe	Arg	Asn	Pro 105	Ile	Phe	Ser	Tyr	Ile 110	Phe	Arg	
45	Thr.	Gly	Lys 115	Cys	Ile	Pro	Ile	Thr 120	Arg	Gly	Gly	Gly	Ile 125	Tyr	Gln	Glu	
	Asn	Met 130	Asn	Glu	Ala	Leu	Gln 135	Arg	Leu	Lys	Asp	Gly 140	Ser	Trp	Leu	His	
50	Thr 145	Phe	Pro	Glu	Gly	Lys 150	Val	Phe	Gln	Ąsp	Asp 155	Val	Pro	Ile	Arg	Arg 160	
55	Leu	Lys	Trp	Gly	Thr 165	Ala	Ser	Leu	Ile	Ala 170	Arg	Ser	Pro	Val	Thr 175	Pro	
	Ile	Val	Leu	Pro 180	Ile	Ile	His	Arg	Gly 185	Phe	Glu	Glu	Met	Met 190	Pro	Glu	
	Asn	Tyr	Asn	Asn	Gly	Arg	Arg	Pro	Leu	Val	Pro	Leu	Pro	Asn	Lys	His	

10

		195		٠			200				•	205				
5	Leu Lys 210	Val	Val	Val	Gly	Glu 215	Pro	Ile	Glu	Phe	Asp 220	Val	Pro	Met	Met	
	Val Glu 225	Thr	Ala	Val	Leu 230	Asp	Ser	Arg	His	Val 235	Thr	Pro	Pro	Leu	Gln 240	
10	Glu Val	Lys	Trp	Pro 245	Val	Leu	Thr	Ser	Ala 250	Gly	Gln	Val	Leu	Asp 255	Glu	
	Thr Ala	Gln	Arg 260	His	Leu	Tyr	Ile	Ala 265	Leu	Ser	Glu	Lys	Ile 270	Gln	Ser	
15	Ser Leu	Glu 275	Thr	Leu	Arg	Leu	Leu 280	Ala	Lys	Arg	Leu					
20	<210> 7															
	<211> 40 <212> DN <213> Ze	IA.	ays				٠					-		٠		
<b>25</b>	<220> <221> mi <222> (1				•		٠									
30	<400> 7 ccgctcct caagggtt	כנ כ	caac	ttcg	rg at	gcaa	agct	tgg	aagg	rtaa	atac	tgac	aa d	agaa	gatat	120
35	atgettea gagagggg aggetgge attgaagt aattgtte	ag a gt g tg c gg g	iatgt iggat :atac igaac	agto ttat atto tgco	a tg c aa c ct a gt	rtcct gaac gaag ctta	acat acat gaaa ttgt	gtt gaa aat ccq	tcga tgaa agcc agca	ctt gcc caa cct	ggga cttg gaag ataa	aatg acgt atca	rca t gc t	acca taga	atcac aatgg	180 240
40	<210> 8 <211> 42 <212> DN <213> G1	Α	e ma	×	,		. •		. •							
45	<220> <221> mi <222> (1	sc_f )(	eatu 423)	re												
50	<400> 8 ttcccggg tggctact ttcattgc ggaagatt	ct to ca g	cete cttc ctct	cacc cacc tgtt	a tt t ct c gt	caac ttct acga	gctg atcg tgca	taa:	cago acga tgtt	cga gtg gcg	tttc atta gttc	gtga agga ctgt	tt t tt t tc t	ccga cagt	aggga tctga	120 180 240
55	ctgtcacg ctccgcgt ttccatgg tan	tg c	tgca	taga	c ct	aagg	gcaa	acc'	tctt	ctt	acaa	tcag	саа	tcate	attac	360

```
<211> 408'
      <212> DNA
      <213> Glycine max
      <220>
      <221> misc_feature
      <222> (1)..(408)
     <220>
 10
     <221> misc_feature
     <222> (1)..(408)
     <400> 9
     tttttatcaa ccaacgcaac atgtcacgga cgatggagtg ggcggcgagg gcggagcacc 60
     tecgeggeat teceagaaaa etegtgattg eggeggtggg eggattegee aaaaeggtgt 120
     cgtctttcct caacaccgcc gatgttcaca acggcgacac tctcctccgc ctcgtccgct 180
     ccagacccca ccgcgtcccc ctcattaccg ttagcaatca catgtccact ttggatgatc 240
     cggttatgtg ggggttcaag ggttttccta tcttcgacac caacttagct cgctgggttc 300
     tegetgeega agatatttge tteaggaatg ceetetatte etatatttt eggetgeata 360
20
     cttttccaga aggaaaagtg tatcaagaag atgcacctat aaggcaat
     <210> 10
     <211> 368
25
     <212> DNA
     <213> Linum usitatissimum
     <220>
     <221> misc_feature
30 <222> (1)..(368)
     <400> 10
    cggttagcaa ccatgttgct tctgtcgatg acccatttgt gattgcttca ttgctaccac 60
 caagagtact tttggatgct cagaacttga ggtggacact ttgcgcaagg atcgctgttt 120
35 taggaatece greacters cattertaag actgreaaag terreceet ereregregt 180
  . catggagttt atcagaaggg tatggacacg gcaattgcga acgtgaacac tggtggctgg 240
     gttcacatct tcccggaggt agccgttcta aggatggtgg gaaaactatg gggtctatta 300
     aaagaggtgt tggaaggttg gtacttgatg ctgatacttc tccccattgt agtcccggtc 360
     gtgcacac
40
     <210> 11
     <211> 376
     <212> DNA
45
     <213> Linum usitatissimum
     <220>
     <221> misc_feature
     <222> (1)..(376)
50
    <400> 11
    tcgtagttag agaacctcag atggctggga ttacaaggaa tgcagtgttt gtgaccgtcg 60
    gtgcctttgc taaggcagtg agtagtcttc tgaacaatac atcagtccac aatgcagaca 120
    ctctacttcg cctagttcga tctcggccgc ctggtgtacc tctcatcact gttagcaatc 180
55
    acatgtcaac gttagatgat cctctgatgt ggggattcaa gggattccca atcatgggat 240
    gcgaaattgt ttcgatgggt atgggctgct gaagacatct gtttcaggaa ttctttcat 300
    tcttacttct ttcgcatggg gaaatgtatt cccattacaa gaggtggggg aatttatcgg 360
    agccacatga atgaag
```

```
<210> 12
      <211> 418
     <212> DNA
     <213> Linum usitatissimum
     <220>
     <221> misc_feature
     <222> (1)..(418)
10
     <400> 12
     ccgcctggtg tacctctcat cactgttagc aatcacatgt caacgttaga tgatcctctg 60
     atgtggggat tcaagggatt cccaatcatg aatgcgaaat tgtttcgatg ggtattagct 120
     gctgaagaca tctgtttcag gaattctttt cattcttact tctttcgcat ggggaaatgt 180
15
     attcccatta caagaggtgg tggaatttat caaagccaca tgaatgaagc tcttcagcgc 240
     ttgagcaatg gtgattggct gcacacattc cctgagggaa aggtcaacca agaaattgga 300
     cctataagac gattgaaatg gggaactgcc agtctcatcg tccgtgcccc tgttacaccg 360
     atagtattac ccattgttca tcgtggcttt caagaggtga tgccagagaa ctacctat
20
     <210> 13
     ·<211> 445
     <212> DNA
     <213> Glycine max
25
     <220>
     <221> misc_feature
     <222> (1)..(445)
30
     <400> 13
     ttccgggtcg accgccattg gcgccgccgc cactaccacc acacctttat cccctccgcc 60
     gatggctact tctcctccac cattcaacgc tggctcagcc gatttcgtga tttccgcaga 120
     gactcgttgc cgtcgtccac ctcttttat cgcaaacgag tgattaagga tttcagttct 180
     gaagaagatt caactettgt tegtatgatg caagetgttg eggtteetgt tettggaaat 240
35
     gtctgtcacg tgtttatgaa cggattaaac agtgtgcagg tatatggttt agaaaaactg 300
     cacteegett tactgeaaag acctaaagga aaacctette ttaeggteag caateatgtt 360
     gcttccatgg atgatcctct tgttattgct tcgctgcttc ctccgagtgt tcttttggac 420
    gctaggaatc tcagatggac gcttc
40
     <210> 14
     <211> 361 .
     <212> DNA
     <213> Hordeum vulgare
45
     <220>
    <221> misc_feature
    <222> (1)..(361)
50
    <400> 14
    ggaatcggtg atcctccgca tggttcaagc tgtggcggtt cctctattgg gaaacatgtg 60
    ctacgtgttc atgaatggcc tcaatcgcgt tcaggttcat ggcctggaga agctgcacaa 120
    ggcattgctt gagaggccta aggacaagcc cctagtaacg gttagcaacc atgttgcttc 180
    tgtcgatgac ccatttgtga ttgcttcatt gctaccacca agagtacttt tggatgctca 240
55
    gaacttgagg tggacacttt gcgcaacgat cgctgtttta ggaatcccgt cacttctgca 300
    ttctttaaga ctgtcaaagt cttgcccctc tctcgtggtc atggagttta tcagaagggt 360
```

```
<210> 15
      <211> 472
      <212> DNA
      <213> Brassica napus
  5
      <220>
      <221> misc_feature
      <222> (1)..(472)
 10
     <400> 15
     tgtatcggaa tttccgggtc gacgaccacc gccggagagc cgcggtttta tatacggacg 60
     gttacttete tteetecate caeegettgg etgetegatt geggaactte egeegegagt 120
     ctctcccttc tgcccccgct ttttatcgca gaagagtacc taaagatttg acggcagaag 180
     aagagtetge tatetteegg atgetteaag etgtggetgt tecaettatt ggaaacgett 240
 15
     gtcatgtttt catgaatggt cttaaccgtg ttcaggtgta tggtttagag aagttgcatg 300
     atgetetget caacaggeca aagaacaage etetegtaae ggttagcaat catgtggeat 360
     ccttggatga tccatttgtc attgcttcgt tacttccgcc taagcttcta ctcgatgctc 420
     gtaatttgag gtggacgctt tgtgctacag atagatgctt taagaaccct gt
20
     <210> 16
     <211> 412
     <212> DNA
     <213> Brassica napus
25
     <220>
     <221> misc_feature
     <222> (1)..(412)
30
     <400> 16
     tttagatgat ccagtaatgt ggggagggtt caaggcgtct tctttcctta gatccagagc 60
     tggctcgatg ggttcttgct gcagaggaca tttgtttcaa gaaccctgtc ttctcctaca 120
     tetteegeae tggcaagtgt atacetataa etagaggtgg tggaatetae caagaacaea 180
     tgagtgaage tetegagega ttaaaagatg gatettggtt geatacette ccagagggea 240
35
    aggtgtttca agaagatgtg cctataagac gacttaaatg gggaaccgca agcctcatcg 300
     cccgttgccc agtcacccca atcgtcttgc caataattca ccgtggtttg acgagatgaa 360
     tgccgagagt acatttatgg aaaangacca ccgtacccgt tgggaacaaa an
40
     <210> 17
     <211> 410
     <212> DNA
    <213> Brassica napus
45
    <220>
    <221> misc_feature
    <222> (1)..(410)
    <400> 17
50
    tttagatgat ccagtaatgt ggggagggtt caagggtctt ctttccttag atccagagct 60
    ggctcgatgg gttcttgctg cagaggacat ttgtttcaag aaccctgtct tctcctacat 120
    cttccgcact ggcaagtgta tacctataac tagaggtggt ggaatctacc aagaacacat 180
    gagtgaagct ctcgagcgat taaaagatgg atcttggttg catacettee cagagggeaa 240
    ggtgtttcaa gaagatgtgc ctataagacg acttaaatgg ggaaccgcaa gcctcatcgc 300
    ccgttgccca gtcacccaaa tcgtcttgcc aatatttcac cgtggttttg acaacatgat 360
    gcccgaaaat gtccttttat ggaagaatga caaccgtacc tgtggggaan
```

```
<211> 420
      <212> DNA
      <213> Glycine max
 . 5
      <220>
      <221> misc_feature
      <222> (1)..(420)
      <400> 18
      gccattggcg ccgccgacac aaccaccaca cctttatccc ctccgccgat ggctacttct 60
 10
      cctccaccat tcaacgctgg ctcagccgat ttcgtgattt ccgcagagac tcgttgccgt 120
      cgtccacctc tttttatcgc atacgagtga ttaaggattt cagttctgaa gaagattcaa 180
      ctettgtteg tatgatgeaa getgttgegg tteetgttet tggaaatgte tgteaegtgt 240
     ttatgaacgg attaaacagt gtgcaggtat atggtttaaa aaaactgcac tccgctttac 300
     tgcaaagacc taaaggaaaa cctcttctta cggtcagcaa tcatgttgct tccatggatg 360
 15
     atcetettgt tattgetteg etgetteete egagtgttet tttggaeget aggaateten 420
     <210> 19
20
     <211> 490
     <212> DNA
     <213> Brassica napus
     <220>
25
     <221> misc_feature
     <222> (1)..(490)
     <400> 19
     aattcctggg tcgacgattt cgtcccgaga tggtggcaag actatgggct cagcaaaaag 60
30
     aggtattgga aggttgattt tggacgcaga taccetecet atggttgtte catttgtgca 120
     tactggtatg caagatataa tgcctatagg agccagtgtt ccacggattg gcaaaacagt 180
     gacagtgatc attggagatc ctattccctt taatgacctt gtagacactg aaggagccaa 240
     acacgtttca aggaagcagt tgtatgacgc tgtatcttcc aggataggac aaagattaca 300
     ccagttaaag caacaggttg ataaagtatc tctgggagca caatattcag aagaatcacc 360
     agecettett ggtaaacaaa ttteecaaac egatgtnegt eteaatggtt tggaetggea 420
35
     tgttcctaaa agggattgcc atccgaagga agcatcagcc tgaaggttaa gaggtttatg 480
     gactctacag
40
     <210> 20
     <211> 386
     <212> DNA
     <213> Zea mays
45
     <220>
     <221> misc_feature
    <222> (1)..(386)
    <400> 20
50
    cgtgcttaga aatggaggct ggctgcatac attccctgaa ggaaaaatag cccaagaaga 60
    tcagccgatt agaagattga agtggggaac ggccagtctt attgtccgag cacctataac 120
    tccaatagtt ttgccaattg ttcactctgg tttcgaaaag gtcatgccag aaaactcgtt 180
    ctttggacgg cgaccaccgg tgccactctg cagtaagaag atagacatca ttgttggaga 240
    gccaatagag tttgacttgc caagettgaa gcaagaagca tcaacggtac cccatgactc 300
55
    atcetetgaa eggaaggggt ggeeggeeat tacaccagat gggetggaeg aggeegeeca 360
    gagatggctt taccagaaga tgtcag
```

```
<211> 429
      <212> DNA
      <213> Brassica napus
  5
      <220>
      <221> misc_feature
      <222> (1)..(429)
      <400> 21
 10
      ctcgggtcga cgattccgta cggtcttaac cgagttcagg tgtatggttt atagaagctg 60
      tatgatgctc tgctcaacag gccaaagaac aagcctctcg taacggctaa caatgatgtg 120
      gcatccttgg atgatccatt cgccattgct tcattactat ccgcctaagc ttctactctg 180
      atgetegtaa tttgaggtgg acgetttgtg ctacagatag atgetttaag aaccetgtaa 240
      cttcagcttt ctttcgatca ttcaaagttt tgccagcttc tcgcggtgaa ggaatctatc 300
      agcagggaat ggacatcgcg acgtcgaaat tgaataatgg aggatgggtt cacatatttc 360
 15
      cagaaggcag acggtaccga gatggtggct agactatggg ttcacgcaat agaggtattg 420
      gaatgttgt
 20
     <210> 22
      <211> .436
      <212> DNA
     <213> Brassica napus
- 25
     <220>
     <221> misc_feature
     <222> (1)..(436)
     <400> 22
    tctagatgac ccactattgt ggggagggct ccagggtctt atttccttag atccaaagct 60
     ggctcgatgg gatcttgctg cagaggacat ttgtttcaat aaccctgtct tctcctacat 120
     tttccgcact gacacgcgta tacctataac tagaggtggt ggaatctacc aagaacacat 180
     gagtgaagct ctagagcgat taatagatgg atcttgcacg gcaaggcgtt tcaagaagat 240
   gtgcctataa gacgacttaa atggggaacc gcaagcctca tcagccgttg cccagtcacc 300
   ccaatcgtct tgccaataat tcaccgtggt tctgacgaga tgatgccgga gaagtacatt 360
   . tatggaagaa taccaccgtt accgctgtgg aacaaaaacc ttaaagtagt tgttggtgaa 420
     ccaatcagag ttgatg
40
     <210> 23
     <211> 423 .
     <212> DNA
 <213> Brassica napus
45 < 220>
     <221> misc_feature
     <222> (1)..(423)
    <400> 23
    ggatgatcca tttgtcattg cttcgttact tccgcctaag cttctactcg atgctcgtaa 60.
50
    tttgaggtgg acgctttgtg ctacagatag atgcttcaaa aaccctgtaa cttcagcttt 120
    ctttcgatcc gtcaaggttt tgccagtttc tcgcggtgaa ggaatttatc agcagggaat 180
    ggacattgcg atttcgaaat tgaataatgg aggatgggtt cacatatttc cagaaggtag 240
    tcgctcccga gatggtggca agactatggg ctcagcaaaa agaggtattg gaaggttgat 300
    tttggacgca gataccctcc ctaatgttgt tccatttgtg catactggta tgcaagatat 360
    aatgcctata ggagccagtg ttccacggat tggcaaaaca gtgacagtga tcattggaga 420
    tcn
```

```
<210> 24
      <211> 400
      <212> DNA
      <213> Oryza sativa
  5
      <220>
      <221> misc_feature
      <222> (1)..(400)
 10
      <400> 24
      gcgatggcat ctaccaaaag ggaatggaca tggcactttc aaagttgaac aatggtggat 60
      gggttcatat tttcccagaa ggaagtcgtt caaaggatgg agggaaaacc gtcgctcctg 120
      ccaagagagg tgttggaaga ttggtaatgg acgctgacag ccttccagtt gtaataccct 180
      ttgtccatac aggaatgcag gatataatgc ctgtcggaaa acgtattcca agagcaggca 240
 15
      aaagggtgat tgtggttgtt ggtgatccaa tcaacttcaa cgaccttatc attgacaaca 300
      gcgatgaaac ccaacacatc tctagaggca ttttgtatga caaagcaaca gaaaggattg 360
      ggcagagact gcaggaactg aaagccgaag tcgatagatt
 20
      <210> 25
      <211> 414
      <212> DNA
      <213> Brassica napus
25
     `<220>
      <221> misc_feature
     <222> (1)..(414)
     <400> 25
30
     ggcagcaaga tctgatcact tgggaggaat cccaagaaaa actgtgataa cagccgttgg 60
     tgctttcgcg agagcagtag ctaatctttg caacaaaacc aaagttcaca atgcagatac 120
     tettatgact ettgteegtt caegaceace tggtgteect etcateaett ttagatgate 180
     cagtaatgtg gggagggttc aagggtcttc tttctttaga tccagagttg gctcgatggg 240
     tgcttgctgc tgaggatata tgtttcaaga actctttctt ctcctacatc ttccgcactg 300
35
     gcaagtgtat acctataact agaggtggtg gaatctatca agaacacatg agtgaagctc 360
     ttgaacgatt aaaagatgga tcttggttgc ataccttccc agaggggcag gtgg
     <210> 26
40
     <211> 397
     <212> DNA
     <213> Brassica napus
     <220>
45
     <221> misc_feature
     <222> (1)..(397)
     <400> 26
     ctgcccccgc tttttatcgc agaagagtac ctaaagattt gacggcagaa gaagagtctg 60
50
     ctatcttccg gatgcttcaa gctgtggctg ttccacttat tggaaacgct tgtcatgttt 120
     tcatgaatgg tcttaaccgt gttcaggtgt atggtttgga gaagttgcat gatgctttac 180
     tcaacagacc aaagaacaag cctcttgtaa cggttagcaa tcatgtggcg tccttggatg 240
    atccatttgt cattgcttcg ttacttcctc ctaagcttct acttgatgct cgtaatctga 300
    ggtggacgct ttgtgctaca gatagatgct ttaagaaccc tgtaacttca gctttctttc 360
    gatecgtcaa agttttgcca gtttctcgcg gtgaagg
55
    <210> 27
```

<210> 27 <211> 429

```
<212> DNA
      <213> Brassica napus
  5
      <221> misc_feature
      <222> (1)..(429)
      <400> 27
      gaattcaacg tcgacgattt cgtcgatccg tcaaggtttt gccagtttct cgcggtgaag 60
      gaatttatca gcagggaatg gacattgcga tttcgaaatt gaataatgga ggatgggttc 120
      acatatttcc agaaggtagt cgctcccgag atggtggcaa gactatgggc tcagcaaaaa 180
      gaggtattgg aaggttgatt ttggacgcag ataccetece tatggttgtt ccatttgtgc 240
      atactggtat gcaacatata atgcctatag gagccactgt tccacggatt gacaaaacag 300
      tgacagtgat cattggagat cctattccct ttagtgacct tgtagacact gaacgatcca 360
      aacacgtttc aaggaaccag gtttatgacc ctctatcgtt caggatcgac agcgattacc 420
 15
      ctcctgcat
      <210> 28
20
     <211> 404
     <212> DNA
     <213> Brassica napus
     <220>
25
     <221> misc_feature
     <222> (1)..(404)
     gttacttccg cctaagcttc tactcgatgc tcgtaatttg aggtggacgc tttgtgctac 60
30
     agatagatge ttcaaaaace ctgtaactte agetttettt egateegtea aggttttgee 120
     agtttctcgc ggtgaaggaa tttatcagca gggaatggac attgcgattt cgaaattgaa 180
     taatggagga tgggttcaca tatttccaga aggtagtcgc tcccgatatg gtggcaagac 240
     tatgggctca gcaaaaagag gtattggaag gtgagtcata tatgccttta ctttcagcta 300
     ctttatgtaa tgcgtgtgta tggaccttat tataacacaa acaagcttgt gattcacttc 360
35 tttgtgcaag atgatttctc tctcagatac catgcgtatg aatg
                                                                        404
     <210> 29
     <211> 467
40
     <212> DNA
     <213> Brassica napus
     <220>
     <221> misc_feature
45
     <222> (1)..(467)
     <400> 29
     gaattetegg gtegaegata gtgeaaattt agatgateea gtaatgtggg gagggtteaa 60
     ggtettettt cettagatee agagetgget egatgggtae ttgetgeaga ggacatttgt 120
     ttcaagaacc ctgtcttctc ctacatcttc cgcactggca agtgtatacc tataactaga 180
50
    ggtggtggaa tctaccaaga acacatgagt gaagctctcg agcgattaaa agatggatct 240
     tggttgcata ccttcccaca gggcacggtg ttacacgatg atgtgcctag ctgacgactt 300
    acatggggaa ccggcggcct aatcccgcgt tgaccaacca cgccaattct cttgccaata 360
    tttcacggcg actgtgacga catcatgacg cagaaggcca tggatctata aacaccaccg 420
55
     ctacctctct tgatcaaaac cgtaaacgta gaggaggcta accctcn
                                                                       467
```

<210> 30 <211> 459

```
<212> DNA
       <213> Brassica napus
       <220>
   5
       <221> misc_difference
       <222> (1)..(459)
      gatcaccgtg gtagagccgc ggttttatat acggcacggt atagcgttct cttctccatc 60
  10
      caccgcttgg ctgctcgatt ccggaacttc cgccgcgagt ctctcccttc tgcccccgct 120
      ttttatcgca gaagagtacc taaagatttg acggcagaag aagagtctgc tatcttccgg 180
      atgetteaag etgtggetgt tecaettatt ggaaaegett gteatgtttt catgaatggt 240
      cttaaccgtg ttcaggtgta tggtttagag aagttgcatg atgctctgct caacaggcca 300
      aagaacaagc ctctcgtaac ggttagcaat catgtggcat ccttggatga tccatttgtc 360
      attgcttcgt tacttccgcc taagcttcta ctcgatgctc ggaatttgag gtggacgctt 420
 15
      tgggctacac acagatggtt taccaaccct gtgcttccg
      <210> 31
 20
      <211> 389
      <212> DNA
      <213> Glycine max
      <220>
 25
      <221> misc_feature
      <222> (1)..(389)
      <400> 31
     ggggtactgc gcccgcaatt cccggnccgg accaccattg gcgccgcgac accaccacac 60
 30
     ctttatecec tetgeegatg getaettete etegaceatt caaegetgee teageegatt 120
     tegtgattte egaaggtatt cattgeette ttecaeetet ttetategta aacgagtgat 180
     taaggatttc agttctgagg aagattcagc tcttgttcgg acgatgcaag ctgttgcggt 240
     tcctgttctt ggaaatgtct gtcacgtgtt tatgaacgga ttaaaccagg tgcaggtgta 300
     tggtttagaa aaactgcact ccgcgttgct gcatagacct aagggcaaac ctcttcttac 360
35
     ggtcagcaat catgttgctt ccatggatg
     <210> 32
     <211> 400
40
     <212> DNA
     <213> Oryza sativa
     <220>
     <221> misc_feature
45
     <222> (1)..(400)
     agaaaaactg cactccgctt tactgcaaag acctaaagga aaacctcttc ttacggtcag 60
     caatcatgtt gettecatgg atgateetet tgttattget tegetgette eteegagtgt 120
50
     tettttggac getaggaate teagatggac getttgegea actgataggt gttttaaaaa 180
     ccctgtgact tctgcattct ttcgatcagt caaagttttg ccagtttctc gaggtgatgg 240
    catttatcaa gaaggaatgg acttggccat atcaaaattg aaccatggtg gttgggtcca 300
    gatattccca cacggcggtt gatccctcta tttttcaaaa tcagaaagtt aaaataaggg 360
    agggggggtc gaaaaatcca agcggggagc gggccccttg
55
    <210> 33
    <211> 449
    <212> DNA
```

```
<213> Brassica napus
      <220>
      <221> misc_feature
     <222> (1)..(449)
      <400> 33
      aattcccggg tcgacgatca ccgtggcaga gccgcggttt tatatacgga cggttacttc 60
      tectecteca tecacegett ggetgetega tteeggaact teegeegega gteteteeet 120
      tctgcccccg ctttttatcg cagaagagta cctaaagatt tgacggcaga agaagagtct 180
 10
      getatettee ggatgettea agetgtgget gttecaetta ttggaaacge ttgteatgtt 240
      ttcatgaatg gtcttaaccg tgttcaggtg tatggtttgg agaagttgca tgatgcttta 300
      ctcaacagac caaagaacaa gcctcttgta acggttagca atcatgtggc gtccttggat 360
      gatecatttg teattgette gttacttect ectaagette tacttgatge tegtaatetg 420
      aggtggacgc tntgtgctac agatagatg
 15
      <210> 34
      <211> 429
 20
     <212> DNA
    <213> Oryza sativa
     <220>
     <221> misc_feature
 25
     <222> (1)..(429)
   . <400> 34
     ccgggatggt ggaaaaacca tgggctcttc caagagaggt gttgggaggt tagtcctgga 60
     tggagatagc atgcctgttg ttgtcccatt tgtacataca gggatgcagg agattatgcc 120
30 tgtaggtgct aactttccca gaataggcaa gatggttaca gtgctcatag gtgatccgat 180
     caattttgat gatataattg aatttgacaa agacanaggc tcaaatgtgc ccagaagacg 240
     actatatgat gcagtagcat ctaaaattgg tgatcggttg cttgagatga aggtccaggt 300
   tgacactate geaattgtea agaaatgeag gtaccagaaa agteeteaca cagaetgace 360
     gaccattaaa aaactgagcc aggtgattgg gactaatttg aatggacatc ttctggccgc 420
35
   agaaatgcc
                                      • :
     <210> 35
     <211> 449
40
     <212> DNA
     <213> Brassica napus
     <220>...
     <221> misc_feature
45
     <222> (1)..(449)
     <400> 35
    aattcccggg tcgacgatca ccgtggcaga gccgcggttt tatatacgga cggttacttc 60
    tectecteca tecacegett ggetgetega tteeggaact teegeegega gteteteeet 120
    tctgcccccg ctttttatcg cagaagagta cctaaagatt tgacggcaga agaagagtct 180
    gctatcttcc ggatgcttca agctgtggct gttccactta ttggaaacgc ttgtcatgtt 240
    ttcatgaatg gtcttaaccg tgttcaggtg tatggtttgg agaagttgca tgatgcttta 300
    ctcaacagac caaagaacaa gcctcttgta acggttagca atcatgtggc gtccttggat 360
    gatecatttg teattgette gttactteet ectaagette tacttgatge tegtaatetg 420
55
    aggtggacgc tntgtgctac agatagatg
```